

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A sorting device for sorting granules, ~~objects or the like~~ (9) within a bulk of such ~~objects~~ (9) granules, where the ~~objects~~ (9) granules differ in quality, which sorting device comprises:

positioning means giving a well-separated position for each granule, ~~object or the like~~ (9);

detecting means[[,]];

at least one source (10) of electromagnetic radiation or sonic waves[[,]];

ejecting means and receiving means[[,]];

wherein the positioning means is a cylinder (1) having a number of pockets (3) placed in rows along the inner circumference of the cylinder (1) so that, when the cylinder is rotated, and ~~that the cylinder (1) is rotated with such a high speed that the granules or the like (9) are~~ positioned and held in the pockets (3) for a time sufficient for detection and ejection

wherein an opening is furnished in the bottom of each pocket, which opening is small enough not to let the granules through, each pocket being adapted to capture and hold a granule and having a form in the area of the opening that facilitates positioning of the granule to fully cover the opening; and

a timer to control the position of each pocket in relation to the detecting means and the ejecting means.

2. (Currently Amended) The sorting device of claim 1, wherein the granules ~~or the like~~ (9) are positioned and held in the pockets by means of centrifugal force at the top of the turn of the cylinder (1).

3. (Currently Amended) The sorting device of claim 2, wherein one detecting means is placed for co-operation with each row and that the detecting means contains one or more detectors (5) for emitted, transmitted ~~and/or~~ or reflected light or radiation or sonic waves, a

CCD-camera (s), a diode array (s) or a photocell (s) and that the detecting means comprises at least one source of electromagnetic radiation ~~and/or~~ or sound.

4. (Currently Amended) The sorting device of claim 3, wherein the source of electromagnetic radiation comprises ~~[[a]]~~ at least one light emitting diode.

5. (Currently Amended) The sorting device of claim 3, wherein the detecting means is arranged for co-operation with several rows of pockets (3) by means of fiber optic cables (12), filters ~~and/or~~ or that a lens is placed at the end of each fiber optic cable (12).

6. (Currently Amended) The sorting device of any claim 1, wherein the ejecting means comprises at least one ejector (6) placed in connection with each row of pockets and for co-operation with the detecting means and that a source of compressed air is connected to at least one ejector by means of one or more single way valves or multi way valves; wherein that the ejecting means has the form of one of flaps opening to the outside of a cylinder (1) or the like; ~~that the ejecting means has the form of~~, at least two parts of the positioning means moving away from each other~~[[;]]~~, ~~or that the ejecting means has the form of and a rod.~~

7. (Currently Amended) The sorting device of claim 1, wherein at least one receiving means (7) is placed to receive the ~~objects (9) or the like~~ granules being ejected by the ejecting means (6); that at least one receiving means is placed to receive the ~~objects (9)~~ granules by means of gravity; ~~and/or~~ or that the receiving means (7) are troughs (13) having a conveying mechanism at the bottom leading to a receptacle.

8. (Cancelled)

9. (Currently Amended) The sorting device of claim 1, ~~further comprising a timer, used to control the position of each pocket (3) and/or object (9) in relation to the detecting and ejecting means; and/or that~~ wherein the detecting means and ejecting means are connected to a micro controller unit, MCU.

10. (Previously Presented) The sorting device of claim 9, wherein an A/D converter is placed between each detecting means and the MCU and that the MCU includes at least a processor, an EEPROM and I/O units.

11. (Currently Amended) The sorting device of any claim 1, wherein each detecting means is placed in close proximity to an ejecting means (6).

12. (Currently Amended) Method A method for sorting granules, ~~grains etc.~~ into different fractions, the method comprising:

separating wherein the granules are separated in such a way that each single granule passes a detecting means in a well-separated and well-defined position;

synchronizing the position of each granule with a position of a detecting means and an ejecting means using a timer; and

actively ejecting, that at least a subgroup of the granules is actively ejected into a receiving means in accordance with detected properties, wherein and that centrifugal forces are used in connection to positioning and holding of the objects (9) granules in the well-separated and well-defined positions when passing the detecting and ejecting means.

13. (Currently Amended) The method of claim 12, wherein the granules etc. are divided into two or more subgroups depending on detected qualities of each single granule etc.